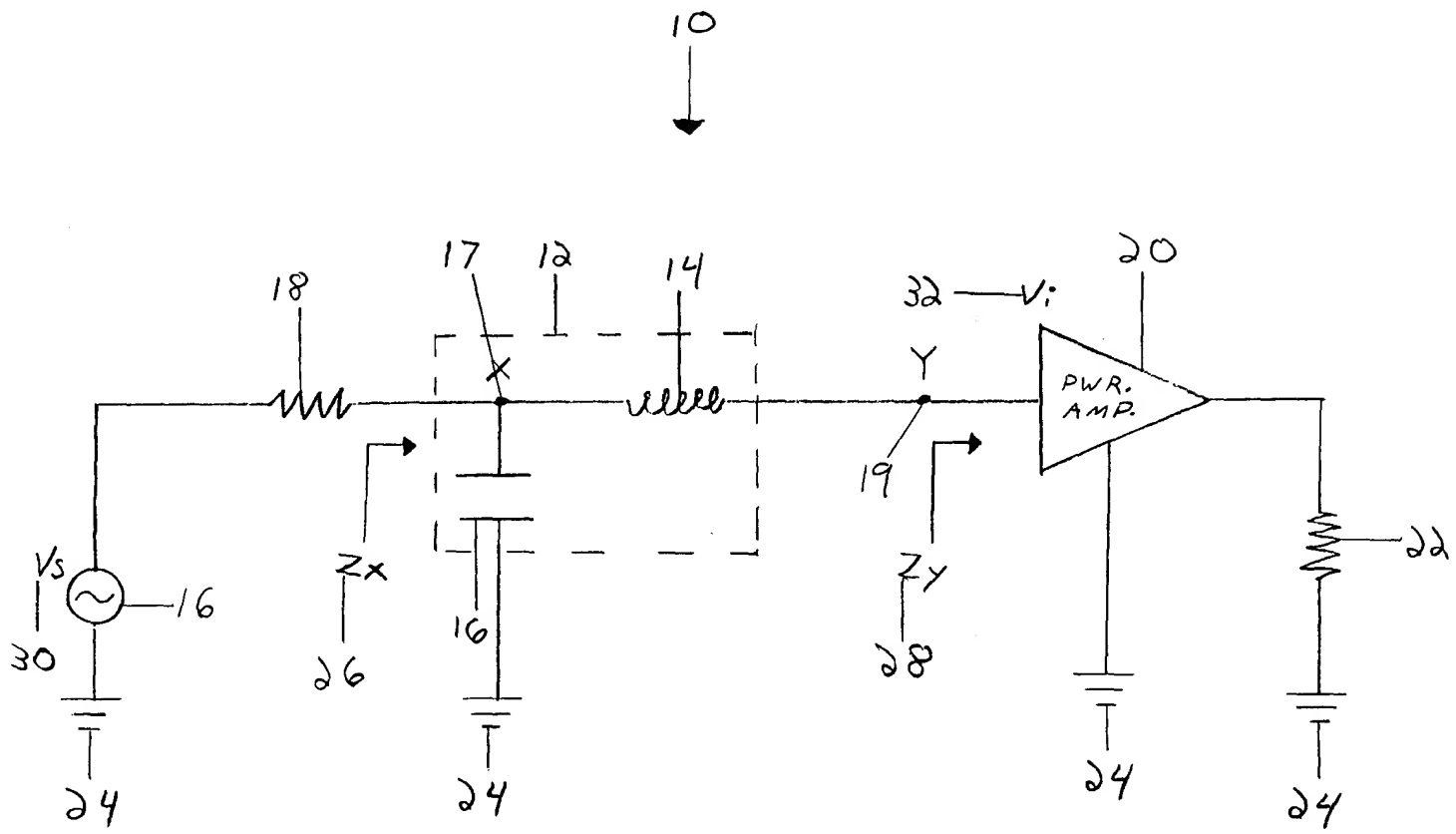

FIG. 1

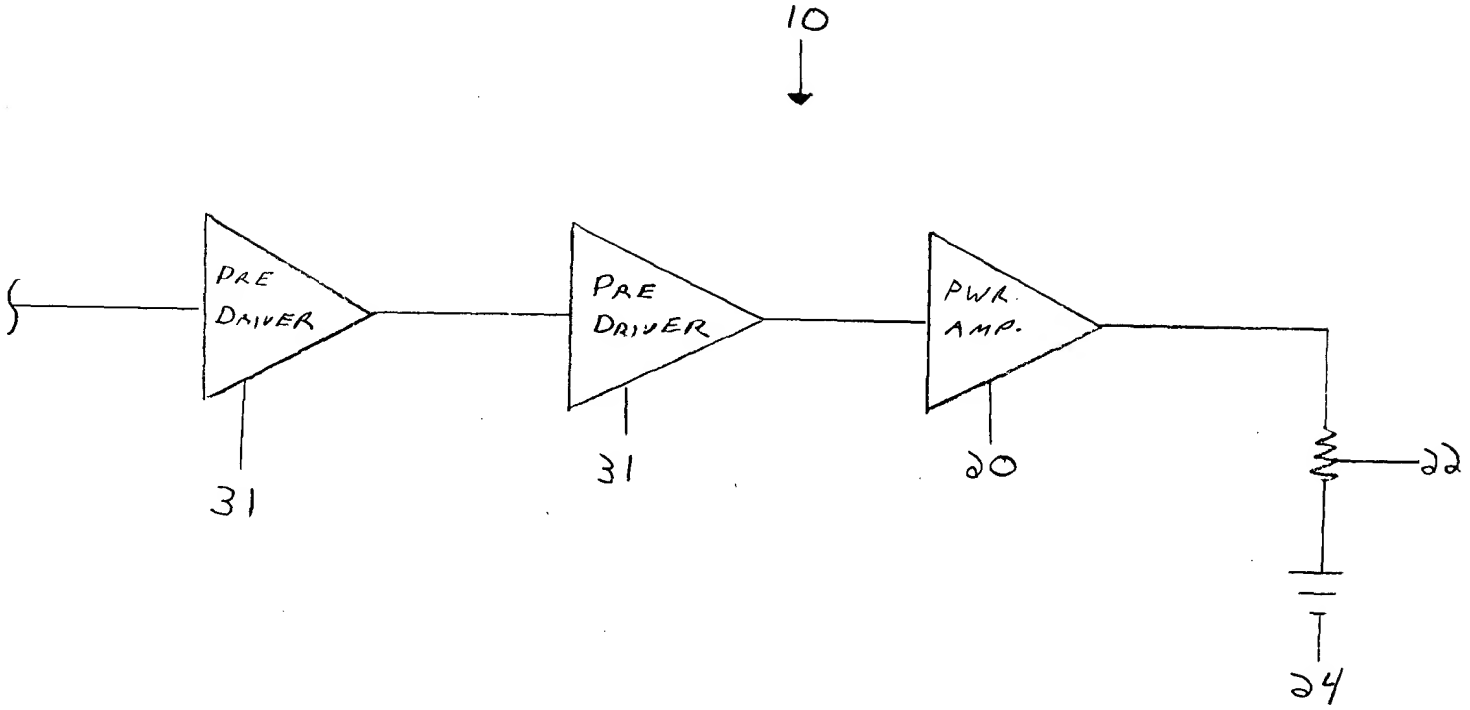

FIG. 2

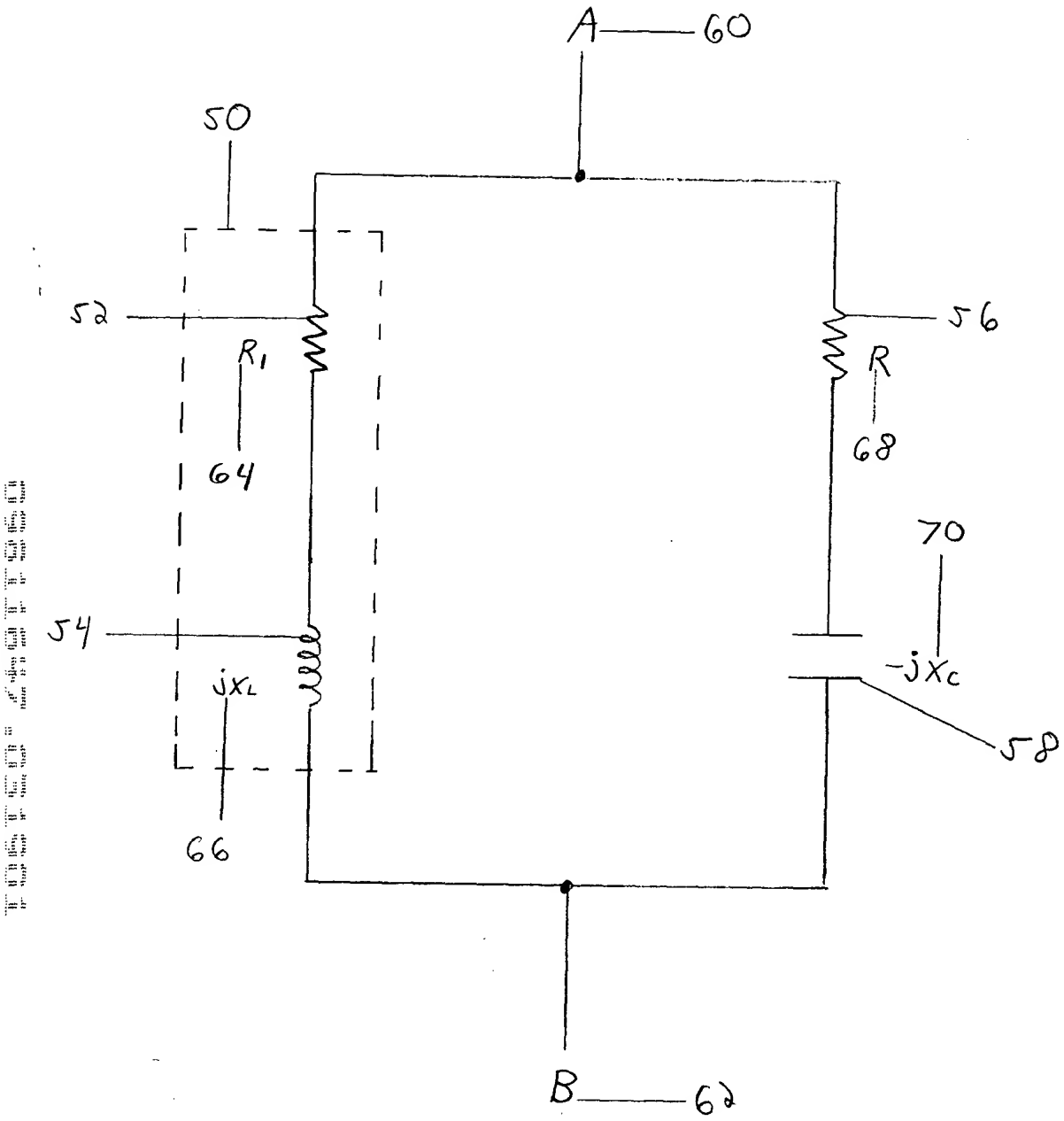

FIG. 3

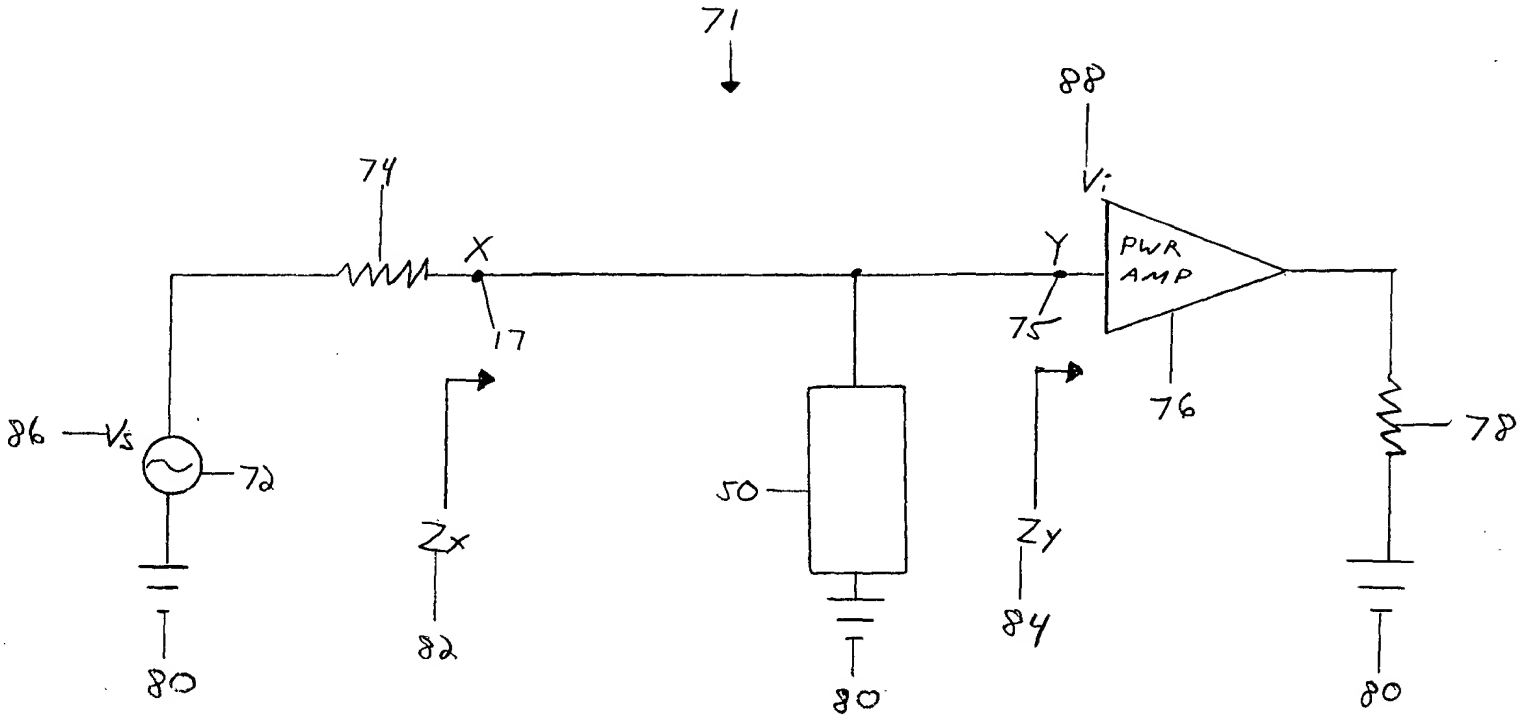

FIG. 4

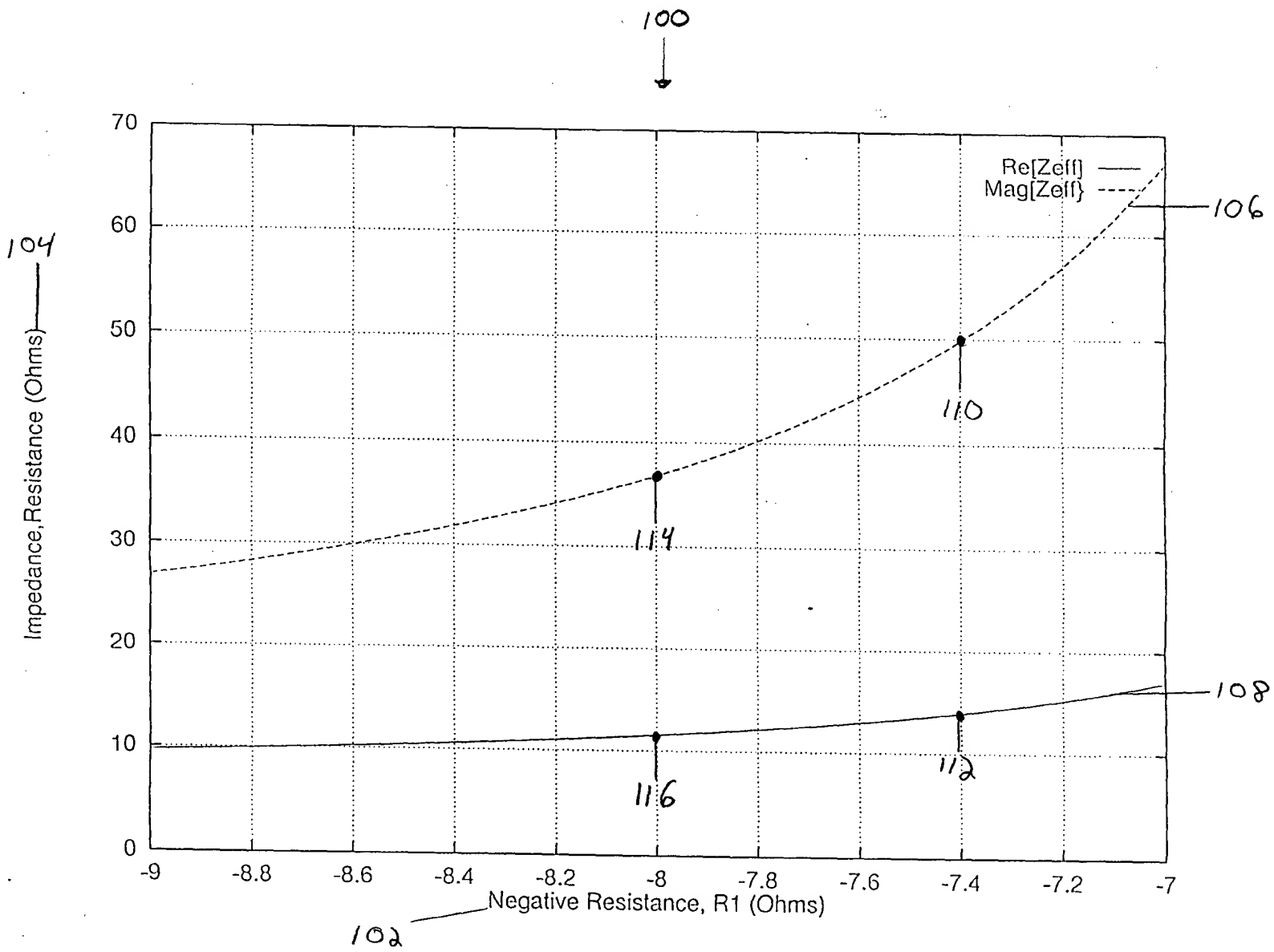

FIG. 5

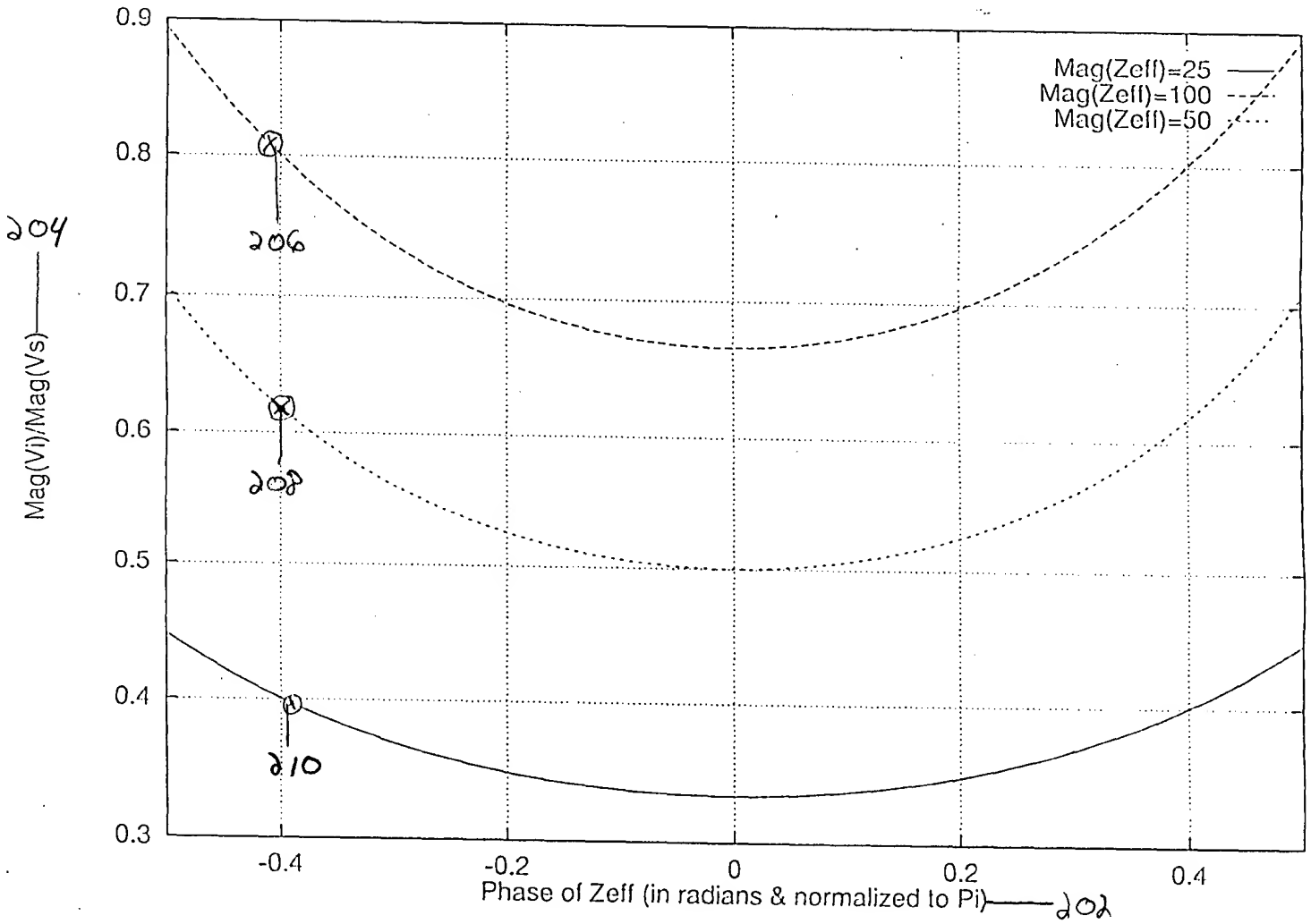
200
0.9
0.8
0.7
0.6
0.5
0.4
0.3
Mag(Zeff)=25
Mag(Zeff)=100
Mag(Zeff)=50
206
208
210
204
Mag(Vi)/Mag(Vs)
-0.4
-0.2
0
0.2
0.4
Phase of Zeff (in radians & normalized to Pi)
202

FIG. 6

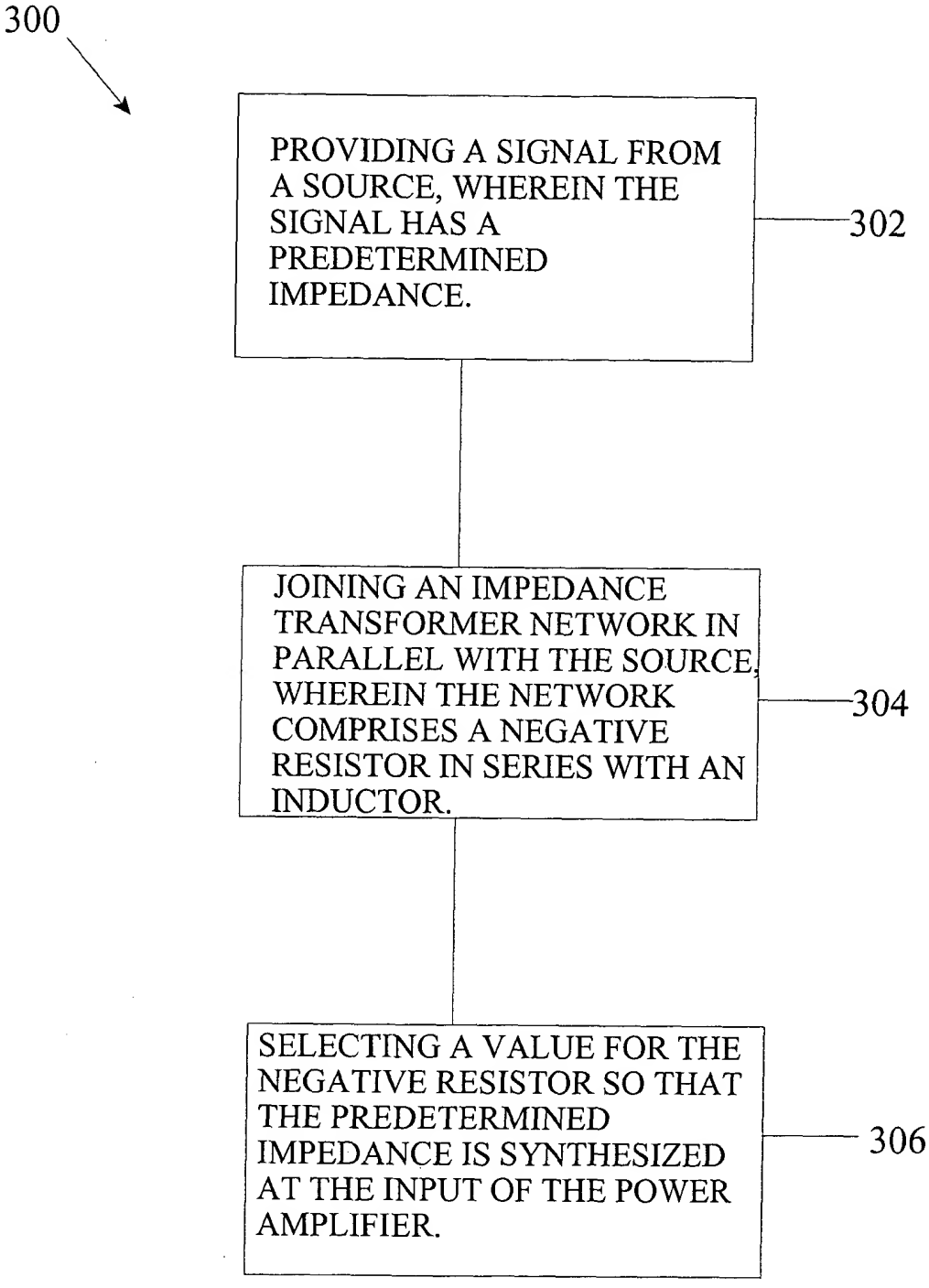
300
PROVIDING A SIGNAL FROM A SOURCE, WHEREIN THE SIGNAL HAS A PREDETERMINED IMPEDANCE.
302
JOINING AN IMPEDANCE TRANSFORMER NETWORK IN PARALLEL WITH THE SOURCE, WHEREIN THE NETWORK COMPRISES A NEGATIVE RESISTOR IN SERIES WITH AN INDUCTOR.
304
SELECTING A VALUE FOR THE NEGATIVE RESISTOR SO THAT THE PREDETERMINED IMPEDANCE IS SYNTHESIZED AT THE INPUT OF THE POWER AMPLIFIER.
306

FIG. 7